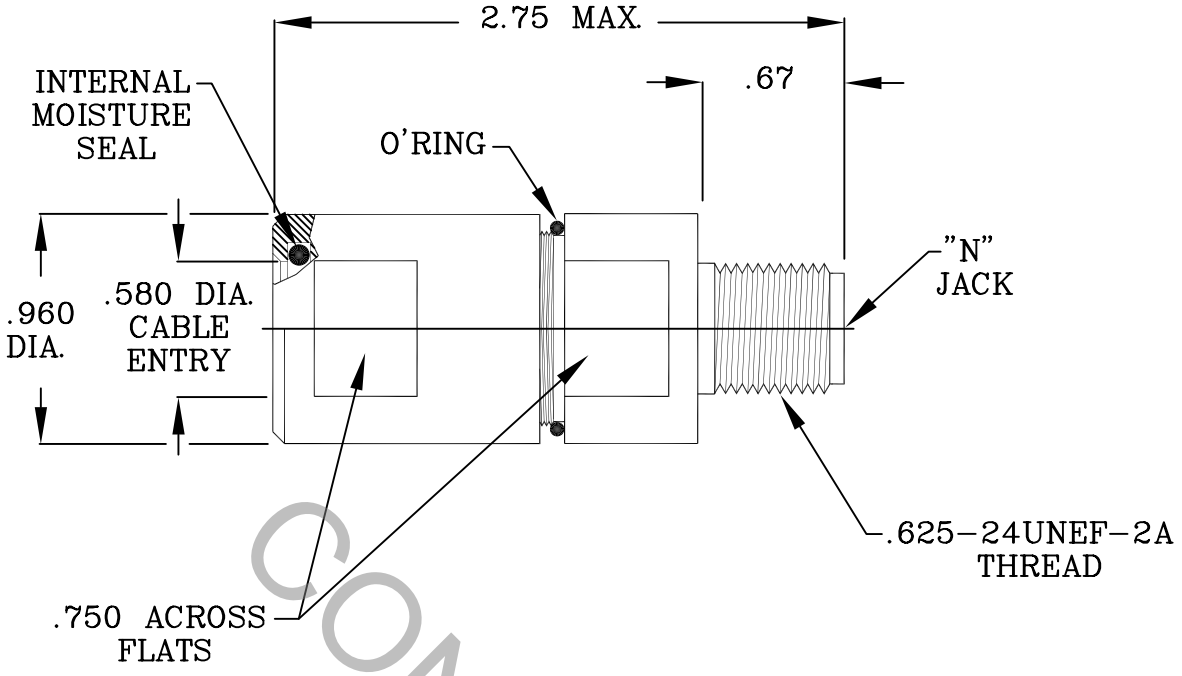
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A (Fig. 304-2) TYPE "N" JACK AND DYNAWAVE SPECIFICATION MD-75.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 10.0 GHz.
VSWR (MAX.) ❋	1.10 + .010 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.040 dB x $\sqrt{FGHz}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	750
RF LEAKAGE (MIN. dB DOWN)	100 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65° c TO +165° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	2,500
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	2.0
• OUTER CONTACT (MAX. MILLIOHMS)	3.0

❋ TERMINATED IN A 50 OHM LOAD

® HELIAX IS A REGISTERED TRADE MARK OF ANDREWS CORPORATION
™ FLEXWELL IS A TRADE MARK OF CABLEWAVE SYSTEMS

REV.	DCN NO.	DATE	APP.
–	1106	7/94	T.S.

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ± .030, .XX ± .010, .XXX ± .005
FRACTIONAL: ±1/64
ANGULAR: X° ± 1°0', X° X' ± 15'
SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
GEORGETOWN MA. 01833

DRAWN TS DATE 7/94
APPROVED TS DATE 7/94

TITLE TYPE "N" JACK STRAIGHT TO HELIAX® P/N FSJ4RN-50B AND FLEXWELL™ P/N S-FLC-12-50JFR

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 7500-5501-2100

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
• MIN. AXIAL FORCE	6.0 LBS.
• MIN. RADIAL TORQUE	N/A
CENTER CONTACT AXIAL FORCES	
• INSERTION (MAX. OUNCES)	N/A
• WITHDRAWAL (MIN. OUNCES)	N/A
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)	N/A
CONNECTOR DURABILITY (MIN. CYCLES)	1,000
RECOMMENDED MATING TORQUE	
INTERFACE	35/40 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, COND. C (–65 °c TO + 200 °c)
SHOCK	MIL–STD–202, METHOD 213, COND. I (100 G's)
VIBRATION	MIL–STD–202, METHOD 204, COND. D (20 G's)
MOISTURE RESISTANCE	MIL–STD–202, METHOD 106, LESS STEP 7b
CORROSION	MIL–STD–202, METHOD 101, COND. B (48 HOURS)
BAROMETRIC PRESSURE (ALTITUDE)	MIL–STD–202, METHOD 105, COND. C (70,000 FT.) (625 VRMS)

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5. MATERIAL

CONNECTOR BODY, CLAMP RING, CLAMP SLEEVE COMPRESSION SLEEVE	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.
INSULATOR	TEFLON PER ASTM D 4894–91
GASKET	SILICONE PER ZZ–R–765, CLASS IIB, GRADE 50 OR 60.
MOISTURE SEALS	SILICONE
SHRINK SLEEVE	POLYOLEFIN, FLEXIBLE PER MIL–I–23053/5

6. FINISH

CONNECTOR BODY, CLAMP RING, CLAMP SLEEVE COMPRESSION SLEEVE	SILVER PER QQ–S–365, TYPE II, GRADE A OVER COPPER FLASH PER MIL–C–14550.
CENTER CONTACT	GOLD PER MIL–G–45204, TYPE I, GRADE A (.000050 MIN. THK.) OVER COPPER PER MIL–C–14550, CLASS 4
INSULATOR, GASKET AND MOISTURE SEALS SHRINK SLEEVE	N/A